

REPORT OF CHIEF ENGINEER
HUDSON RIVER - BLACK RIVER REGULATING DISTRICT
BOARD MEETING
JANUARY 12, 2021 – MAYFIELD

HUDSON RIVER AREA - DECEMBER SUMMARY

Reservoir Operation

Great Sacandaga Lake

The December average daily release from the Sacandaga Reservoir (Great Sacandaga Lake) was approximately 2,350 cubic feet per second (cfs). The Upper Hudson / Sacandaga River Offer of Settlement target elevation for December 31 is 751.65 feet (ft). The release of water from Great Sacandaga Lake was consistent with the Upper Hudson/Sacandaga River Offer of Settlement.

Table 1.0 - *Great Sacandaga Lake Elevation and Release*

Date	Daily Average Elevation (ft,NAVD) ⁽⁴⁾	Deviation (ft) (1)		Release (cfs)	
		From Average	From Offer of Settlement	Conklingville Dam	E.J. West (2) Hydro Plant
Nov. 30	754.34	-0.24	-0.05	0	849
Dec. 31	756.0 (e)	+2.6 (e)	+4.4 (e)	0	2,000 (e)

- Notes: (1) Difference between current reservoir elevation and historic average or Level 3
(2) Release established by Regulating District
(3) "(e)" represents estimated value
(4) "NAVD" is National Geodetic Vertical Datum

Indian Lake Reservoir

The December average daily release from Indian Lake was approximately 460 cfs.

Table 2.0 - *Indian Lake Reservoir Elevation and Release*

Date	Daily Average Elevation (1) (ft, NAVD)	Deviation (ft)		Release (cfs)
		From Average	From Target	
Nov. 30	1644.40	+0.32	+2.62	304
Dec. 31	1644.0 (e)	+1.1 (e)	+3.6 (e)	318 (e)

- Notes: (1) Local datum = NAVD elevation + 1617.63ft; spillway crest = 1651.01ft (33.38ft)
(2) "(e)" represents estimated value

HUDSON RIVER AREA - DECEMBER SUMMARY- continued

River Flow

Hudson River flow, downstream of the confluence with the Sacandaga River, was approximately 12,900 cfs on December 27 and approximately 7,800 cfs above the historic average flow.

Table 3.0 - *Sacandaga, Indian, and Hudson River Flow*

River	Monthly Average Flow (cfs)	Historic Average Flow (2) (cfs)
Sacandaga at Hope	1,810 (e)	1,090
Sacandaga at Stewarts Bridge	2,350 (e)	2,610
Indian at Indian Lake Dam	463 (e)	282
Hudson at Hadley (1)	4,300 (e)	2,700

- Notes: (1) Above confluence with Sacandaga River
 (2) Based on USGS records
 (3) "(e)" represents estimated value
 (4) Gauge unavailable due to ice

Precipitation

Monthly total precipitation measured 109%, 64%, and 94% historic average at Indian Lake, Mayfield, and Conklingville, respectively, as of December 27

Table 4.0 - *Hudson River Basin Precipitation - as of December 27*

Station	Monthly Total (inch)	Historic Average (inch)
Indian Lake	3.43	3.16
Mayfield	2.53	3.93
Conklingville	3.57	3.78

HUDSON RIVER AREA - DECEMBER SUMMARY- continued

Operation Overview

Precipitation during the month of December was below average in the Great Sacandaga Lake watershed and above average in the Indian Lake watershed. The monthly inflow to Great Sacandaga Lake and Indian Lake reservoir was approximately 126% and 128% of historic average, respectively. Monthly release of water from Great Sacandaga Lake and Indian Lake measured 89% and 118% of historic average, respectively.

Great Sacandaga Lake Operation

Great Sacandaga Lake operation summary report for the period December 1, 2020 through December 27, 2020 is attached. This report includes projected and forecast values for dates after December 27, 2020.

Hudson River Area Staff Activities

Staff completed routine maintenance and operations activities during the month.

A summary of District staff activities and work projects at the dam facilities is attached in the Administrator's Report.

BLACK RIVER AREA – DECEMBER SUMMARY

Reservoir Operations

Stillwater Reservoir

The December average daily release from Stillwater Reservoir was approximately 340 cfs. The maximum discharge for the month was 500 cfs.

Table 1.0 - *Stillwater Reservoir Elevation and Release*

Date	Daily Average Elevation (ft, NGVD)	Deviation from Average Elevation (ft) (1)	Release (cfs)
Nov. 30	1667.07	-3.58	300
Dec. 31	1668.0 (e)	-3.0 (e)	300 (e)

Notes: (1) Difference between current reservoir elevation and historic average
 (2) "(e)" represents estimated value

Sixth Lake Reservoir

The December average daily release from Sixth Lake Reservoir was approximately 50 cfs.

Table 2.0 - *Sixth Lake Reservoir Elevation and Release*

Date	Elevation (1) (ft, NGVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Nov. 30	1783.32	+0.01	48
Dec. 31	1782.9 (e)	+0.3 (e)	31 (e)

Notes: (1) Local datum = USGS datum
 (2) Difference between current reservoir elevation and historic average.
 (3) "(e)" represents estimated value

Old Forge Reservoir

The December average daily release from Old Forge Reservoir was approximately 110 cfs.

Table 3.0 - *Old Forge Reservoir Elevation and Release*

Date	Elevation (1) (ft, NGVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Nov. 30	1705.13	+0.27	157
Dec. 31	1705.3 (e)	+0.9 (e)	63 (e)

Notes: (1) Local Datum = USGS elevation
 (2) Difference between current reservoir elevation and historic average.
 (3) "(e)" represents estimated value

BLACK RIVER AREA - DECEMBER SUMMARY - continued

River Flow

The average daily Black River flow, as measured at the Watertown gauge, was approximately 14,900 cfs on December 27.

Table 4.0 - *Moose, Independence, Beaver, and Black River Flow*

River	Monthly Average Flow (cfs)	Historic Average Flow (1) (cfs)
Moose at McKeever	1,453 (e)	946
Beaver at Croghan	610 (e)	662
Black at Watertown	4,930 (e)	4,660

Notes: ⁽¹⁾ Based on USGS records
⁽²⁾ "(e)" represents estimated value
⁽³⁾ Stage and flow affected by ice in river

Precipitation

Monthly total precipitation measured 89%, 92%, 88% of historic average at Stillwater, Old Forge, and Sixth Lake, respectively, as of December 27.

Table 5.0 - *Black River Basin Precipitation - as of December 27*

Station	Monthly Total (inch)	Historic Average (inch)
Stillwater	3.62	4.09
Old Forge	4.18	4.56
Sixth Lake	3.33	3.77

BLACK RIVER AREA - DECEMBER SUMMARY - continued

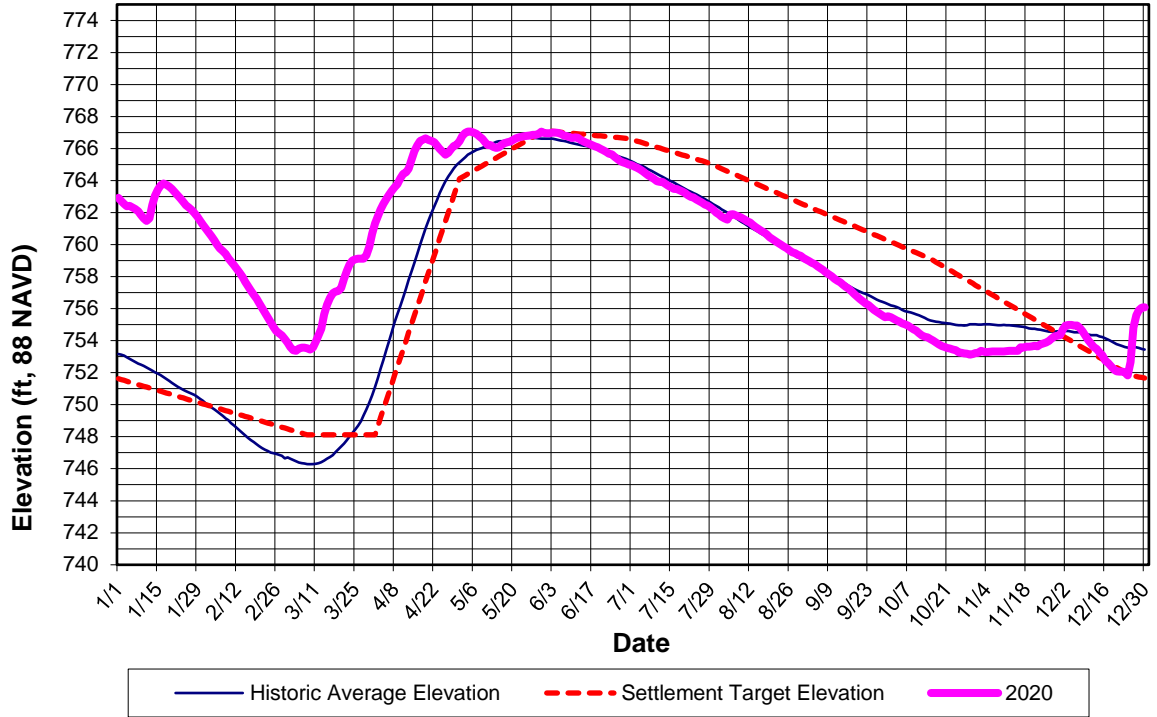
Operation Overview

Precipitation in the month of December was below average at Stillwater and below average at Sixth Lake and Old Forge Reservoir. The monthly inflow to Stillwater Reservoir was approximately 85% of historic average. The inflow to Sixth Lake and Old Forge Reservoir totaled 0.13 and 0.32 billion cubic feet, respectively, in December. Release of water from Stillwater Reservoir averaged 75% of historic discharge.

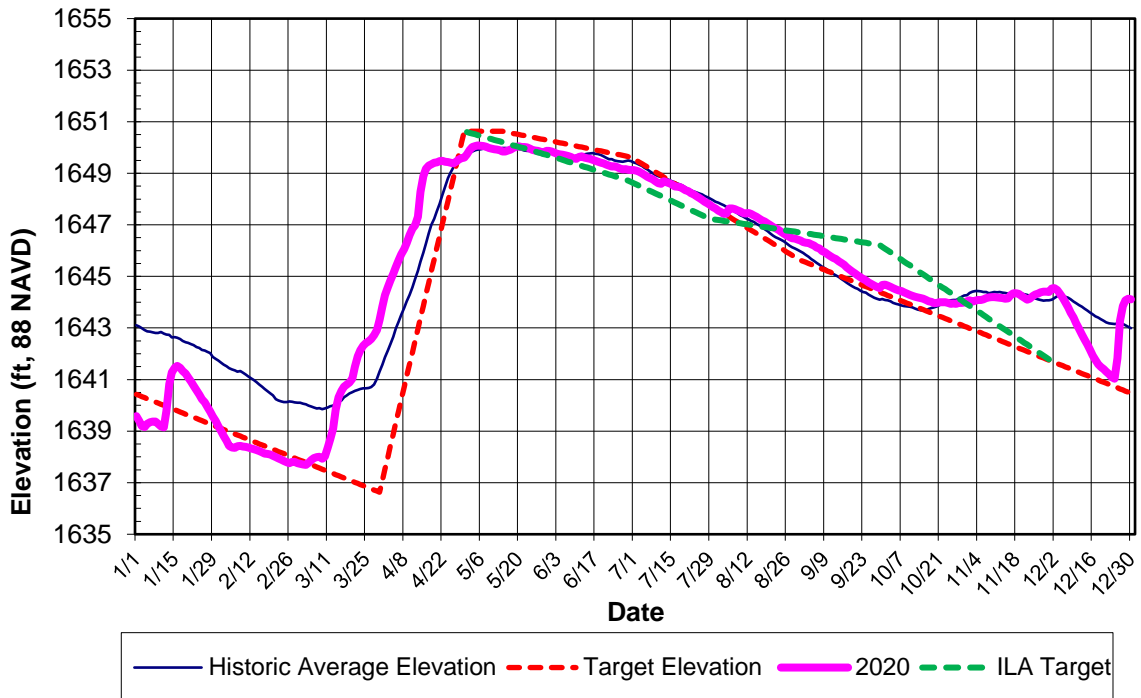
Black River Area Staff Activities

A summary of District staff activities and work projects at the dam facilities is attached in the Administrator's Report.

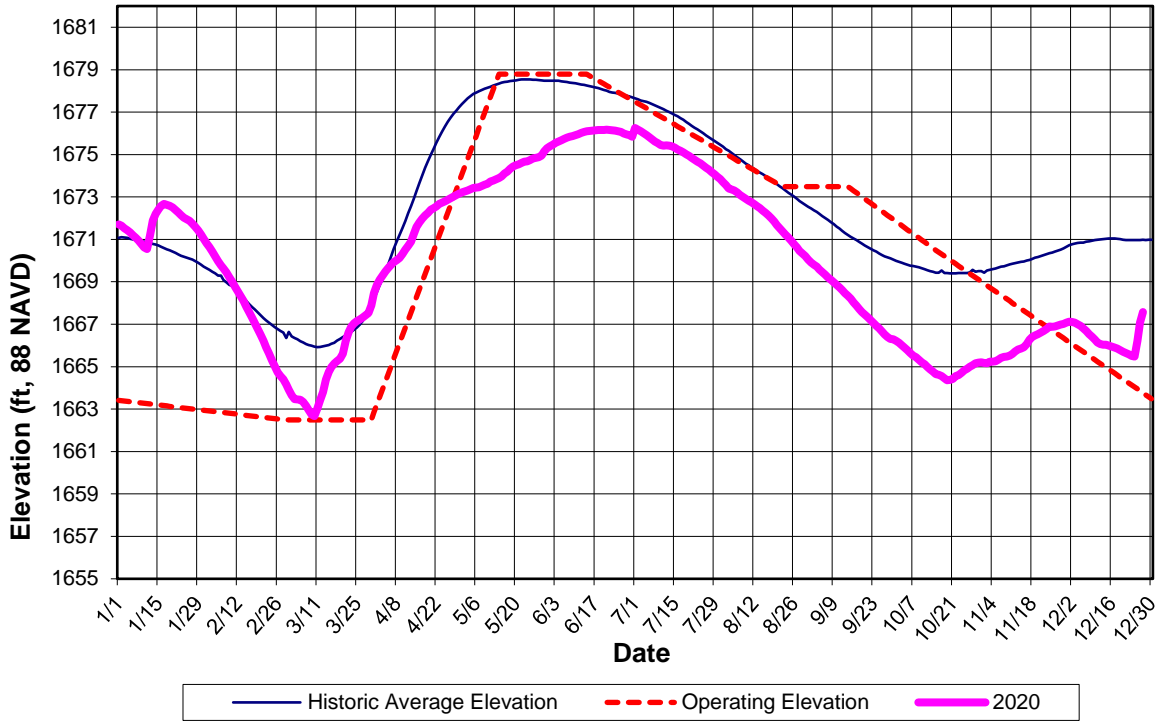
Great Sacandaga Lake 2020 Reservoir Elevation



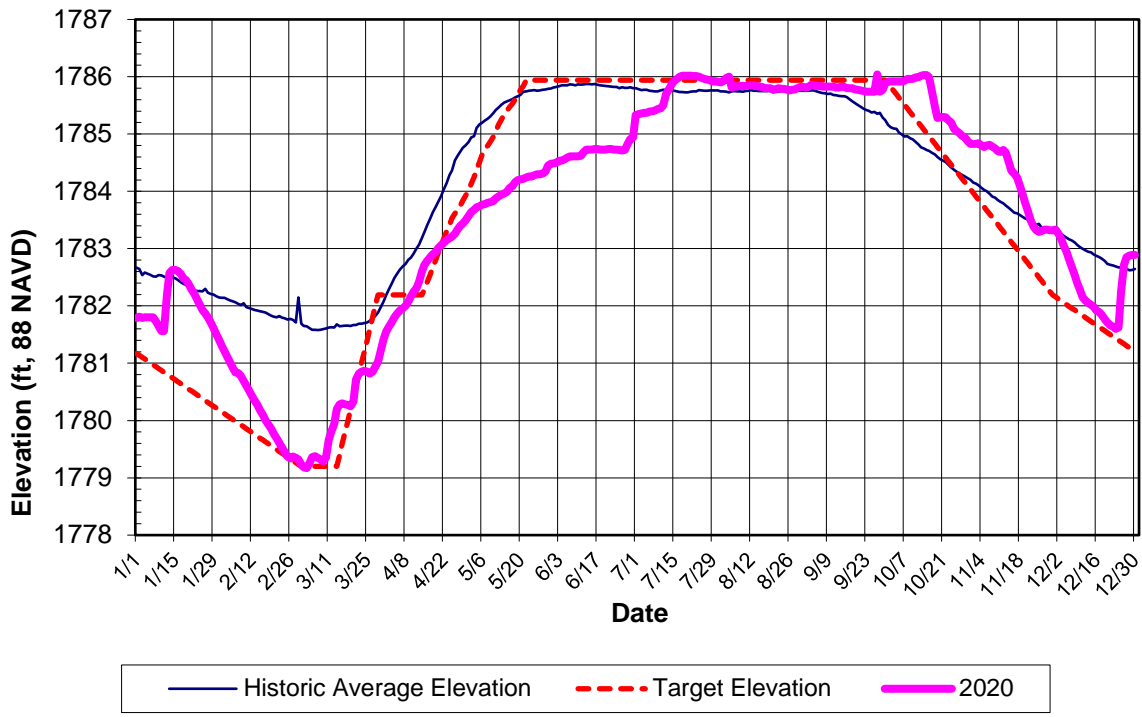
Indian Lake 2020 Reservoir Elevation



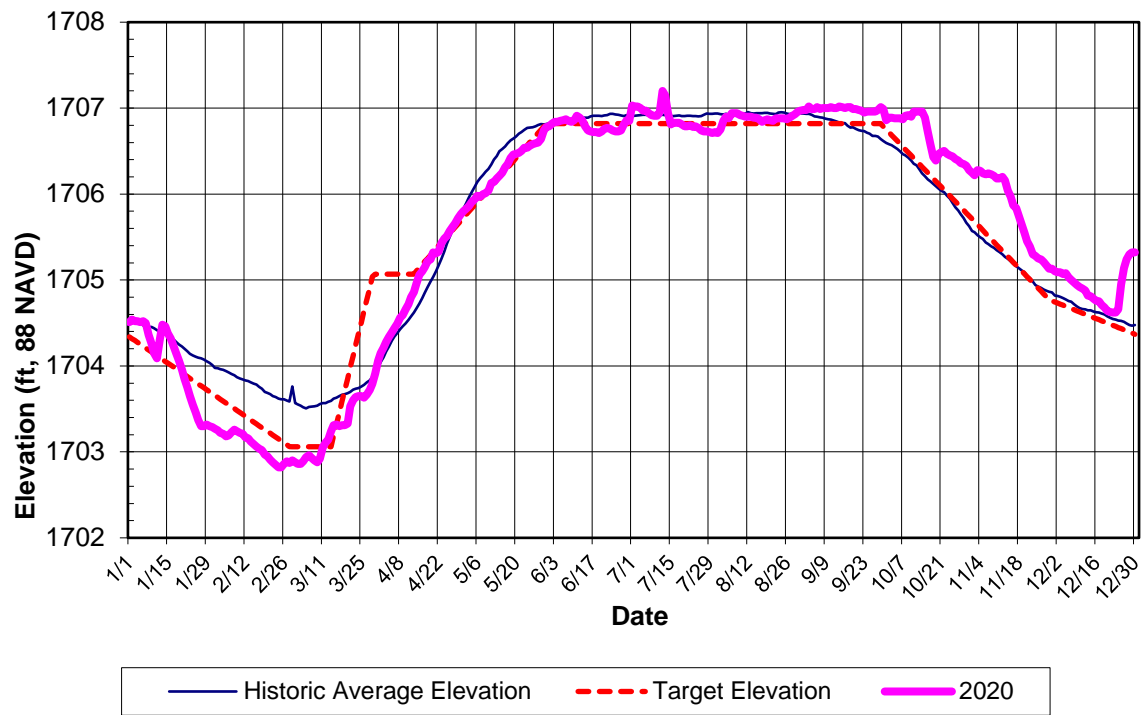
Stillwater Reservoir 2020 Reservoir Elevation



Sixth Lake 2020 Reservoir Elevation



Old Forge 2020 Reservoir Elevation



SACANDAGA RESERVOIR ELEVATION CALCULATOR

Datum:

1988 NAVD

Settlement Parameters

Date	12/28/2020	
Target Elevation	751.73	
Actual "Level"	3.01	
"Level 2.5 threshold"		
"Level 1.2 threshold"	741.14	
Hudson River Target	Elevation	Level
Maximum Flow (cfs)	8000	7520
Minimum Flow (cfs)	n/a	2020
Min. Rec/Rafting Hours (hrs)	#VALUE!	

Rafting Release at Abanakee
North Crk T, Th, Sa., Su.
Hadley M, W, F, Su.

BROOKFIELD HYDRO CONTROL CENTER: 877-816-7466

Whitewater (hrs)	Daily Avg (cfs)
3	806
4	958
5	1110
6	1263
7	1415
8	1567

Daily Conditions	
Date	12/28/2020
Day of Year	5111
Starting Elevation (ft)	755.79
Average Elevation	755.91
Flow Below Hadley (cfs)	9350
Today's Release	350
Tomorrow's Release	500

Justin St.John 518-743-2004 (w)
315-396-8194 (cell)
Jonathan Norris 518-743-2094

Dan McCarty 744-2067 Eric Johnson
755.91 Piezometers 518-696-5807 863-8791

ACTUAL High Value
SCHEDULED Low Value
ESTIMATED Instant. (min + rafting)
TO BE CHANGED
Spillway Crest 770.12 ft 88 NAVD

Starting Date 12:00 AM	Starting Elevation	Net Average Inflow	Sacandaga River Flow					Settlement Level	Hudson at Hadley	Hudson River Below Confluence	Hudson River Target Flow			Ending Elevation	Ending Date 12:00 AM	Daily Average Elevation	Settlement Target Elevation	Historic Daily Average Elev.
			E.J. West Valves	Spillway	Average Release	Maximum (Table F - Elev.)	Minimum (Table C - Level)				Maximum (Table D - Elev.)	Maximum (Table E - Level)						
12/1/2020	754.50	6200	1800	0	0	1800	4000	3.02	4650	6450	2040	8000	7540	754.89	12/2/2020	754.70	754.29	754.48
12/2/2020	754.89	4000	2670	0	0	2670	4000	3.03	5390	8060	2040	8000	7540	755.00	12/3/2020	754.95	754.18	754.48
12/3/2020	755.00	1900	2410	0	0	2410	4000	3.04	5120	7530	2080	8000	7580	754.95	12/4/2020	754.98	754.08	754.45
12/4/2020	754.95	2600	2200	0	0	2200	4000	3.05	4490	6690	2100	8000	7600	754.98	12/5/2020	754.97	753.98	754.41
12/5/2020	754.98	1900	2180	0	0	2180	4000	3.05	3970	6150	2080	8000	7580	754.95	12/6/2020	754.97	753.88	754.41
12/6/2020	754.95	1700	2180	0	0	2180	4000	3.04	3610	5790	2080	8000	7580	754.90	12/7/2020	754.93	753.77	754.40
12/7/2020	754.90	1000	3340	0	0	3340	4000	3.04	3250	6590	2060	8000	7560	754.69	12/8/2020	754.80	753.67	754.35
12/8/2020	754.69	1400	4210	0	0	4210	4000	3.03	2920	7130	2060	8000	7560	754.43	12/9/2020	754.56	753.57	754.30
12/9/2020	754.43	1300	4200	0	0	4200	4000	3.03	2710	6910	2040	8000	7540	754.17	12/10/2020	754.30	753.47	754.27
12/10/2020	754.17	1300	4170	0	0	4170	4000	3.04	2590	6760	2080	6000	7580	753.91	12/11/2020	754.04	753.36	754.24
12/11/2020	753.91	1000	3210	0	0	3210	4000	3.04	2450	5660	2080	6000	7580	753.71	12/12/2020	753.81	753.26	754.22
12/12/2020	753.71	900	3190	0	0	3190	4000	3.03	2310	5500	2060	6000	7560	753.50	12/13/2020	753.61	753.16	754.23
12/13/2020	753.50	2000	3190	0	0	3190	4000	3.02	2280	5470	2040	6000	7540	753.39	12/14/2020	753.45	753.05	754.15
12/14/2020	753.39	1100	3200	0	0	3200	4000	3.02	2270	5470	2040	6000	7540	753.20	12/15/2020	753.30	752.95	754.10
12/15/2020	753.20	100	3200	0	0	3200	4000	3.01	2240	5440	2020	6000	7520	752.91	12/16/2020	753.06	752.85	754.03
12/16/2020	752.91	-100	3230	0	0	3230	4000	3.00	1850	5080	2000	6000	7500	752.60	12/17/2020	752.76	752.75	753.94
12/17/2020	752.60	2800	3240	0	0	3240	4000	2.98	1540	4780	1990	6000	7500	752.55	12/18/2020	752.58	752.64	753.86
12/18/2020	752.55	500	3260	0	0	3260	4000	2.95	1660	4920	1976	6000	7500	752.29	12/19/2020	752.42	752.54	753.76
12/19/2020	752.29	1200	2250	0	0	2250	4000	2.92	1570	3820	2250	6000	7500	752.19	12/20/2020	752.24	752.44	753.67
12/20/2020	752.19	400	2230	0	0	2230	4000	2.91	1600	3830	1957	6000	7500	752.02	12/21/2020	752.11	752.33	753.59
12/21/2020	752.02	1400	1170	0	0	1170	4000	2.92	1730	2900	1962	6000	7500	752.04	12/22/2020	752.03	752.23	753.55
12/22/2020	752.04	1100	1130	0	0	1130	4000	2.93	1710	2840	1966	6000	7500	752.03	12/23/2020	752.04	752.13	753.49
12/23/2020	752.03	800	1090	0	0	1090	4000	3.00	1550	2640	2000	6000	7500	752.00	12/24/2020	752.02	752.03	753.45
12/24/2020	752.00	1200	4080	0	0	4080	4000	2.98	1520	5600	1990	6000	7500	751.73	12/25/2020	751.87	751.92	753.48
12/25/2020	751.73	26000	538	0	0	538	4000	3.05	11400	11938	2100	6000	7600	754.04	12/26/2020	752.89	751.82	753.52
12/26/2020	754.04	14800	425	0	0	425	4000	3.14	17400	17825	2280	8000	7780	755.31	12/27/2020	754.68	751.79	753.48
12/27/2020	755.31	6000	419	0	0	419	4000	3.19	12500	12919	2380	8000	7880	755.79	12/28/2020	755.55	751.76	753.43
12/28/2020	755.79	3000	350	0	0	350	4000	3.21	9000	9350	2420	8000	7920	756.02	12/29/2020	755.91	751.73	753.38
12/29/2020	756.02	1500	500	0	0	500	4000	3.21	7000	7500	2420	8000	7920	756.10	12/30/2020	756.06	751.70	753.34
12/30/2020	756.10	1000	1500	0	0	1500	4000	3.21	6000	7500	2420	8000	7920	756.05	12/31/2020	756.08	751.67	753.30
12/31/2020	756.05	800	2000	0	0	2000	4000	3.21	5000	7000	2420	8000	7920	755.94	1/1/2021	756.00	751.65	753.03
1/1/2021	755.94	600	3000	0	0	3000	4000	3.21	4000	7000	2420	8000	7920	755.73	1/2/2021		751.57	753.03
6/6/2020	767.29	500	2000	0	0	2000	5487	3.00	500	2500	2000	8000	7500	777.12	3/15/2019	#N/A	#N/A	#N/A

500

Signature: _____

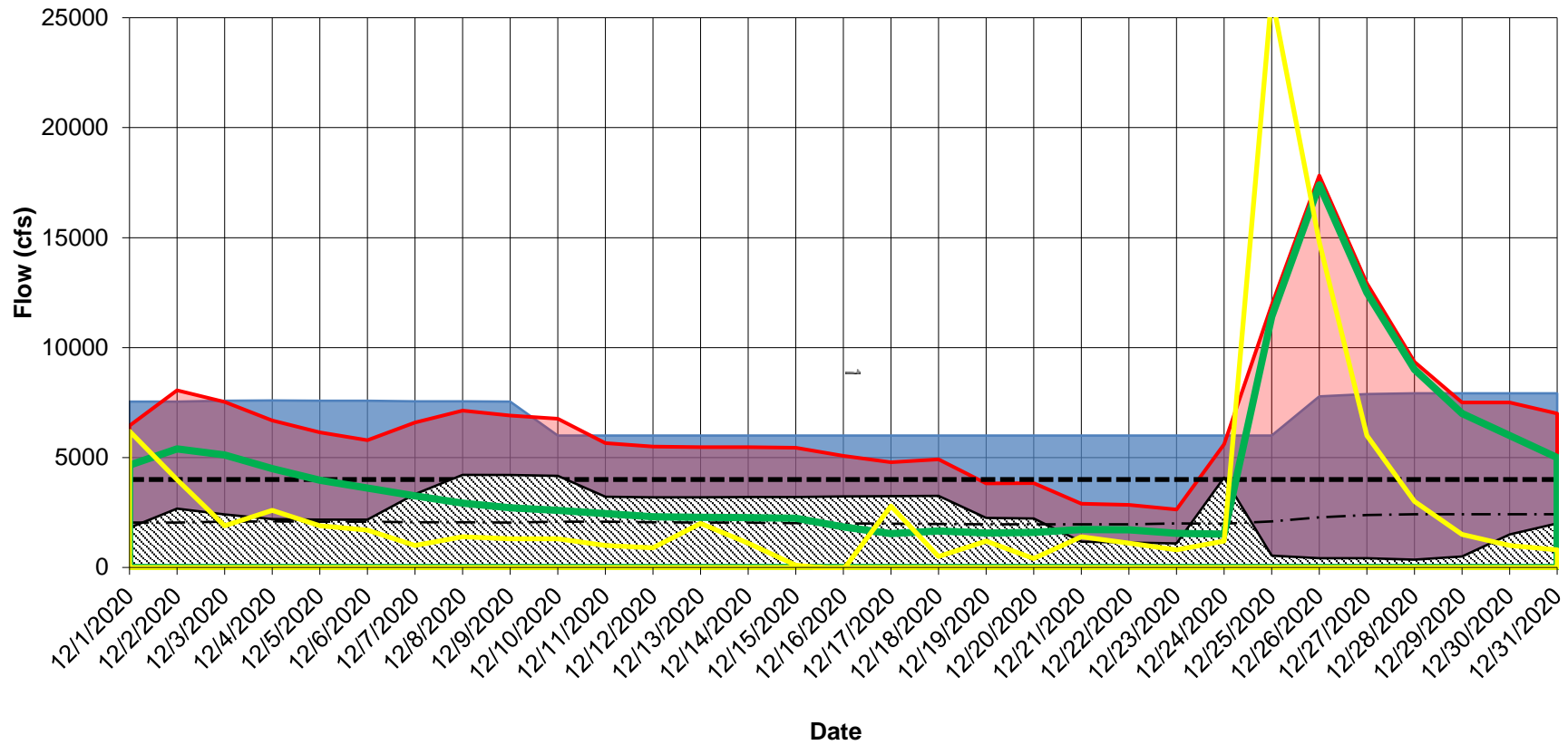
Date: _____

**GREAT SACANDAGA LAKE
RESERVOIR OPERATION SUMMARY**

Print Date: 12/28/2020
Period of Record: 12/1/2020 to 12/29/2020

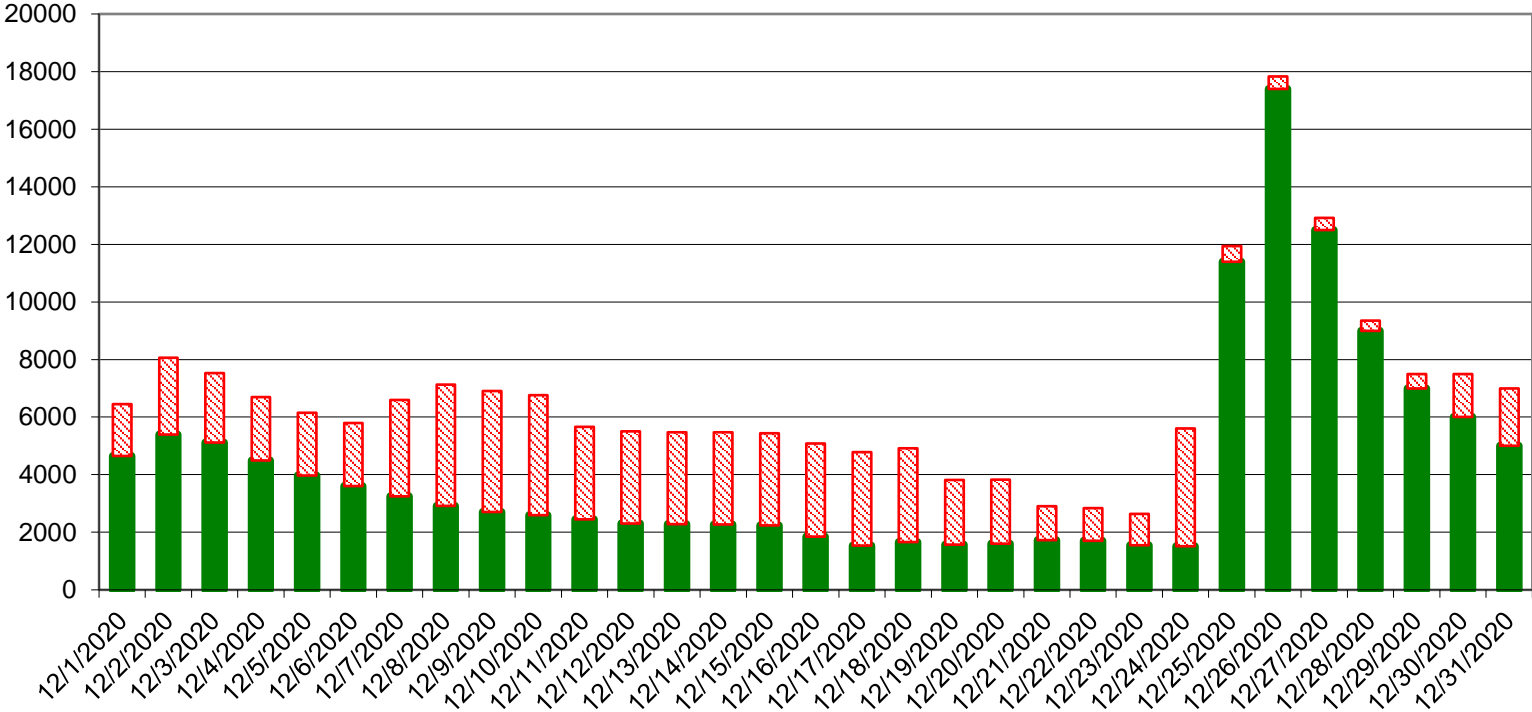
Starting Date 12:00 AM	Daily Avg. Elevation	Net Average Inflow	Sacandaga River Flow Average Release (Table F - Elev.)		Settlement Level	Hudson at Hadley	Hudson River Below Confluence	Hudson River Target Flow Minimum (Table B - Level) Maximum (Table D & E)		Maximum Allowable Sacandaga
12/1/2020	754.70	6200	1800	4000	3.02	4650	6450	2040	7540	4000
12/2/2020	754.95	4000	2670	4000	3.03	5390	8060	2040	7540	4000
12/3/2020	754.98	1900	2410	4000	3.04	5120	7530	2080	7580	4000
12/4/2020	754.97	2600	2200	4000	3.05	4490	6690	2100	7600	4000
12/5/2020	754.97	1900	2180	4000	3.05	3970	6150	2080	7580	4000
12/6/2020	754.93	1700	2180	4000	3.04	3610	5790	2080	7580	4000
12/7/2020	754.80	1000	3340	4000	3.04	3250	6590	2060	7560	4000
12/8/2020	754.56	1400	4210	4000	3.03	2920	7130	2060	7560	4000
12/9/2020	754.30	1300	4200	4000	3.03	2710	6910	2040	7540	4000
12/10/2020	754.04	1300	4170	4000	3.04	2590	6760	2080	6000	4000
12/11/2020	753.81	1000	3210	4000	3.04	2450	5660	2080	6000	4000
12/12/2020	753.61	900	3190	4000	3.03	2310	5500	2060	6000	4000
12/13/2020	753.45	2000	3190	4000	3.02	2280	5470	2040	6000	4000
12/14/2020	753.30	1100	3200	4000	3.02	2270	5470	2040	6000	4000
12/15/2020	753.06	100	3200	4000	3.01	2240	5440	2020	6000	4000
12/16/2020	752.76	-100	3230	4000	3.00	1850	5080	2000	6000	4000
12/17/2020	752.58	2800	3240	4000	2.98	1540	4780	1990	6000	4000
12/18/2020	752.42	500	3260	4000	2.95	1660	4920	1976	6000	4000
12/19/2020	752.24	1200	2250	4000	2.92	1570	3820	1962	6000	4000
12/20/2020	752.11	400	2230	4000	2.91	1600	3830	1957	6000	4000
12/21/2020	752.03	1400	1170	4000	2.92	1730	2900	1962	6000	4000
12/22/2020	752.04	1100	1130	4000	2.93	1710	2840	1966	6000	4000
12/23/2020	752.02	800	1090	4000	3.00	1550	2640	2000	6000	4000
12/24/2020	751.87	1200	4080	4000	2.98	1520	5600	1990	6000	4000
12/25/2020	752.89	26000	538	4000	3.05	11400	11938	2100	6000	4000
12/26/2020	754.68	14800	425	4000	3.14	17400	17825	2280	7780	4000
12/27/2020	755.55	6000	419	4000	3.19	12500	12919	2380	7880	4000
12/28/2020	755.91	3000	350	4000	3.21	9000	9350	2420	7920	4000
12/29/2020	756.06	1500	500	4000	3.21	7000	7500	2420	7920	4000
12/30/2020	756.08	1000	1500	4000	3.21	6000	7500	2420	7920	4000
12/31/2020	756.00	800	2000	4000	3.21	5000	7000	2420	7920	4000

Great Sacandaga Lake Actual and Maximum Allowable Hudson River Flow Below Confluence



Great Sacandaga Lake GSL Release and Natural Hudson River Flow

Total Flow Below Confluence (cfs)



Date



STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR / HUDSON RIVER REGULATION

Monthly Report for: November 2020

Day	Sacandaga Reservoir Elevation Average Daily	Sacandaga Reservoir Elevation Midnight	Sacandaga River Near Hope cfs	Reservoir Inflow Hope x 2.0520 cfs	Sacandaga River at Stewarts Bridge cfs	Hudson River at Hadley cfs	Regulated Hudson River below confluence cfs
1	753.25	753.24	447	917	1000	1290	2290
2	753.36	753.35	685	1406	1010	1270	2280
3	753.31	753.37	662	1358	1110	1270	2380
4	753.29	753.17	577	1184	915	1260	2175
5	753.30	753.29	526	1079	963	1210	2173
6	753.32	753.29	685	1406	998	1170	2168
7	753.32	753.29	649	1332	912	1220	2132
8	753.33	753.31	579	1188	800	1380	2180
9	753.32	753.34	493	1012	782	1410	2192
10	753.32	753.38	466	956	757	1320	2077
11	753.34	753.35	388	796	740	1240	1980
12	753.37	753.39	569	1168	793	1200	1993
13	753.36	753.36	481	987	883	1140	2023
14	753.37	753.37	524	1075	894	1050	1944
15	753.37	753.42	431	884	881	1020	1901
16	753.58	753.60	1010	2073	890	1240	2130
17	753.57	753.61	936	1921	817	1480	2297
18	753.62	753.61	770	1580	843	1690	2533
19	753.63	753.65	632	1297	789	1550	2339
20	753.65	753.71	586	1202	837	1410	2247
21	753.68	753.67	528	1083	848	1350	2198
22	753.65	753.75	476	977	847	1290	2137
23	753.76	753.65	754	1547	860	1410	2270
24	753.82	753.80	1030	2114	858	1690	2548
25	753.88	753.84	841	1726	857	1860	2717
26	753.99	753.92	962	1974	845	2140	2985
27	754.12	754.05	1160	2380	772	2430	3202
28	754.26	754.19	1040	2134	786	2560	3346
29	754.31	754.30	926	1900	782	2600	3382
30	754.34	754.29	1050	2155	849	2620	3469

AVERAGE 700 1430 860 1530 2390

CHANGE IN STORAGE DURING THE MONTH

1.26 B.C.F

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR REGULATION

Monthly Report for: November, 2020

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Indian River at Indian Lake cfs	Hudson River at Newcomb cfs	Regulated Hudson River at North Creek cfs
1	1644.07	1643.91	272	134	211	669
2	1644.02	1643.98	390	134	209	661
3	1644.06	1644.12	-4	134	220	708
4	1644.08	1644.04	134	134	207	688
5	1644.08	1644.04	173	134	193	643
6	1644.11	1644.06	232	134	214	664
7	1644.16	1644.12	232	134	322	815
8	1644.19	1644.16	213	134	389	934
9	1644.20	1644.20	193	134	356	898
10	1644.20	1644.23	85	164	302	813
11	1644.18	1644.19	123	182	262	748
12	1644.17	1644.16	202	182	248	726
13	1644.16	1644.17	123	182	252	753
14	1644.14	1644.14	123	182	227	741
15	1644.15	1644.12	321	183	203	704
16	1644.29	1644.18	459	184	236	898
17	1644.35	1644.32	324	265	311	1230
18	1644.35	1644.36	264	303	310	1250
19	1644.32	1644.33	244	303	267	1060
20	1644.24	1644.30	165	303	246	1020
21	1644.17	1644.23	44	300	227	937
22	1644.10	1644.11	281	301	210	891
23	1644.14	1644.10	540	304	219	982
24	1644.24	1644.21	400	302	289	1260
25	1644.30	1644.26	400	302	297	1290
26	1644.34	1644.31	362	303	303	1330
27	1644.38	1644.35	421	303	392	1480
28	1644.41	1644.40	323	303	481	1630
29	1644.41	1644.41	264	303	450	1620
30	1644.40	1644.39	501	304	395	1540

AVERAGE 260 222 282 986

CHANGE IN STORAGE DURING THE MONTH 0.099 B.C.F

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR / BLACK RIVER REGULATION

Monthly Report for: November 2020

Day	Stillwater Reservoir Elevation Average Daily	Stillwater Reservoir Elevation Midnight	Stillwater Reservoir Net Inflow cfs	Stillwater Reservoir Release cfs	Black River at Boonville cfs	Beaver River at Croghan cfs	Regulated Black River at Watertown cfs
1	1665.17	1665.20	123	200	345	253	2060
2	1665.16	1665.16	257	200	451	256	1990
3	1665.23	1665.19	296	200	533	258	2430
4	1665.23	1665.24	181	200	384	258	2560
5	1665.25	1665.23	277	200	343	264	2580
6	1665.32	1665.28	372	200	465	301	2830
7	1665.41	1665.37	353	200	521	367	3260
8	1665.46	1665.44	238	200	402	469	3360
9	1665.48	1665.46	237	142	336	389	3080
10	1665.52	1665.51	177	100	411	277	2410
11	1665.60	1665.56	330	100	524	281	2290
12	1665.72	1665.67	291	100	813	287	2600
13	1665.81	1665.78	196	100	778	282	3270
14	1665.85	1665.83	234	100	605	279	3200
15	1665.92	1665.89	234	100	504	272	2920
16	1666.07	1665.96	521	100	834	294	2960
17	1666.28	1666.18	406	100	915	306	4120
18	1666.40	1666.35	310	100	737	279	4390
19	1666.48	1666.45	196	100	604	276	3880
20	1666.54	1666.50	215	100	466	299	3170
21	1666.61	1666.57	272	100	442	292	2960
22	1666.69	1666.65	253	100	416	266	2710
23	1666.78	1666.73	330	100	686	271	2670
24	1666.89	1666.86	340	225	984	271	3810
25	1666.88	1666.91	262	300	806	288	4170
26	1666.90	1666.89	357	300	745	293	3940
27	1666.94	1666.92	396	300	828	531	3980
28	1666.99	1666.97	377	300	786	648	4400
29	1667.02	1667.01	338	300	815	654	4650
30	1667.07	1667.04	396	300	818	648	4470

AVERAGE	292	172	610	340	3240
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CHANGE IN STORAGE DURING THE MONTH 0.31 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SIXTH LAKE RESERVOIR REGULATION

Monthly Report for: November, 2020

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1784.83	1784.85	31	0.33	0.33	35
2	1784.83	1784.84	31	0.33	0.33	35
3	1784.84	1784.83	31	0.33	0.33	35
4	1784.80	1784.82	20	0.33	0.33	35
5	1784.77	1784.78	35	0.33	0.33	35
6	1784.80	1784.78	46	0.33	0.33	35
7	1784.81	1784.81	31	0.33	0.33	35
8	1784.78	1784.80	24	0.33	0.33	35
9	1784.75	1784.77	20	0.33	0.33	35
10	1784.70	1784.73	17	0.33	0.33	35
11	1784.69	1784.68	46	0.33	0.33	35
12	1784.72	1784.71	39	0.33	0.33	35
13	1784.67	1784.72	24	1.00	1.00	71
14	1784.51	1784.59	30	1.00	1.00	93
15	1784.36	1784.42	59	1.00	1.00	93
16	1784.31	1784.33	74	1.00	1.00	92
17	1784.24	1784.28	56	1.00	1.00	92
18	1784.11	1784.18	41	1.00	1.00	91
19	1783.95	1784.04	30	1.00	1.00	91
20	1783.80	1783.87	31	1.00	1.00	90
21	1783.65	1783.71	39	1.00	1.00	89
22	1783.50	1783.57	41	1.00	1.00	88
23	1783.39	1783.44	55	1.00	1.00	87
24	1783.32	1783.35	54	0.50	0.50	68
25	1783.29	1783.31	44	0.50	0.50	48
26	1783.31	1783.30	55	0.50	0.50	48
27	1783.33	1783.32	52	0.50	0.50	48
28	1783.33	1783.33	48	0.50	0.50	48
29	1783.32	1783.33	44	0.50	0.50	48
30	1783.32	1783.32	52	0.50	0.50	48

AVERAGE 40 58

CHANGE IN STORAGE DURING THE MONTH -0.048 B.C.F

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE RESERVOIR REGULATION

Monthly Report for: November, 2020

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1706.25	1706.26	81	0.83	0.83	96
2	1706.22	1706.25	66	0.83	0.83	96
3	1706.28	1706.23	171	0.83	0.83	96
4	1706.27	1706.29	36	0.83	0.83	96
5	1706.24	1706.24	111	0.83	0.83	96
6	1706.23	1706.25	96	0.83	0.83	96
7	1706.24	1706.25	96	0.83	0.83	96
8	1706.23	1706.25	66	0.83	0.83	96
9	1706.21	1706.23	66	0.83	0.83	96
10	1706.18	1706.21	34	0.83	0.83	96
11	1706.18	1706.17	158	0.83	0.83	96
12	1706.20	1706.21	140	0.83	0.83	95
13	1706.16	1706.24	111	3.00	3.00	202
14	1706.04	1706.18	82	3.00	3.00	258
15	1705.97	1706.08	74	3.00	3.00	255
16	1705.87	1705.95	253	3.00	3.00	253
17	1705.84	1705.95	162	3.00	3.00	252
18	1705.75	1705.89	100	3.00	3.00	250
19	1705.65	1705.80	66	3.00	3.00	247
20	1705.55	1705.67	94	3.00	3.00	244
21	1705.45	1705.58	137	3.00	3.00	242
22	1705.39	1705.50	134	3.00	3.00	239
23	1705.30	1705.43	117	3.00	3.00	237
24	1705.28	1705.36	121	1.67	1.67	166
25	1705.25	1705.33	99	1.67	1.67	159
26	1705.24	1705.29	114	1.67	1.67	159
27	1705.21	1705.25	129	1.67	1.67	159
28	1705.17	1705.23	38	1.67	1.67	158
29	1705.13	1705.15	128	1.67	1.67	158
30	1705.13	1705.13	97	1.67	1.67	157

AVERAGE 106 165

CHANGE IN STORAGE DURING THE MONTH -0.153 B.C.F

CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
 FOR WEEK ENDING: December 5, 2020

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 28	754.19	20.68	12 AM - Mid	786	2,560	3,346
Sunday 29	754.31	20.79	12 AM - Mid	782	2,600	3,382
Monday 30	754.29	20.78	12 AM - Mid	849	2,620	3,469
Tuesday 1	754.55	21.03	12 AM - Mid	1,800	4,650	6,450
Wednesday 2	754.76	21.23	12 AM - Mid	2,670	5,390	8,060
Thursday 3	754.97	21.44	12 AM - Mid	2,410	5,120	7,530
Friday 4	764.97	31.88	12 AM - Mid	2,200	4,490	6,690
Saturday 5	764.91	31.81	12 AM - Mid	2,180	3,970	6,150

CHANGE IN STORAGE DURING THE WEEK	11.13	* SACANDAGA RIVER AT STEWARTS BRIDGE				
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2020	764.91	31.81	6	2015	755.21	21.67
2	2019	764.86	31.76	7	2017	755.16	21.62
3	2018	762.61	29.30	8	2012	754.21	20.70
4	2011	760.39	26.94	9	2014	753.98	20.48
5	2016	755.58	22.04	10	2013	753.95	20.45

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
 Datum: NAVD 88

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
 FOR WEEK ENDING: December 12, 2020

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 5	764.91	31.81	12 AM - Mid	2,180	3,970	6,150
Sunday 6	754.99	21.46	12 AM - Mid	2,180	3,610	5,790
Monday 7	754.90	21.37	12 AM - Mid	3,340	3,250	6,590
Tuesday 8	754.71	21.19	12 AM - Mid	4,210	2,920	7,130
Wednesday 9	754.44	20.92	12 AM - Mid	4,200	2,710	6,910
Thursday 10	754.18	20.67	12 AM - Mid	4,170	2,590	6,760
Friday 11	754.04	20.54	12 AM - Mid	3,210	2,450	5,660
Saturday 12	753.79	20.30	12 AM - Mid	3,190	2,310	5,500

CHANGE IN STORAGE DURING THE WEEK	-11.52	* SACANDAGA RIVER AT STEWARTS BRIDGE				
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	764.42	31.27	6	2012	754.15	20.64
2	2018	762.03	28.68	7	2015	753.91	20.41
3	2011	759.80	26.32	8	2020	753.79	20.30
4	2016	754.70	21.18	9	2014	753.77	20.28
5	2017	754.26	20.75	10	2013	752.98	19.52

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
 Datum: NAVD 88

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
 FOR WEEK ENDING: December 19, 2020

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 12	753.79	20.30	12 AM - Mid	3,190	2,310	5,500
Sunday 13	753.52	20.04	12 AM - Mid	3,190	2,280	5,470
Monday 14	753.48	20.00	12 AM - Mid	3,200	2,270	5,470
Tuesday 15	753.33	19.86	12 AM - Mid	3,200	2,240	5,440
Wednesday 16	752.89	19.43	12 AM - Mid	3,230	1,850	5,080
Thursday 17	752.54	19.10	12 AM - Mid	3,240	1,540	4,780
Friday 18	752.59	19.15	12 AM - Mid	3,260	1,660	4,920
Saturday 19	752.29	18.86	12 AM - Mid	2,250	1,570	3,820
CHANGE IN STORAGE DURING THE WEEK		-1.43	* SACANDAGA RIVER AT STEWARTS BRIDGE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	765.04	31.96	6	2015	753.23	19.76
2	2018	760.51	27.06	7	2013	752.57	19.13
3	2011	758.77	25.25	8	2014	752.50	19.06
4	2012	754.23	20.72	9	2020	752.29	18.86
5	2016	753.81	20.32	10	2017	752.28	18.86

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
 Datum: NAVD 88

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
 FOR WEEK ENDING: December 26, 2020

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 19	752.29	18.86	12 AM - Mid	2,250	1,570	3,820
Sunday 20	752.19	18.77	12 AM - Mid	2,230	1,600	3,830
Monday 21	752.02	18.61	12 AM - Mid	1,170	1,730	2,900
Tuesday 22	752.07	18.66	12 AM - Mid	1,130	1,710	2,840
Wednesday 23	752.04	18.63	12 AM - Mid	1,090	1,550	2,640
Thursday 24	752.02	18.61	12 AM - Mid	4,080	1,520	5,600
Friday 25	751.76	18.37	12 AM - Mid	538	1,140	1,678
Saturday 26	753.92	20.42	12 AM - Mid	425	17,400	17,825

CHANGE IN STORAGE DURING THE WEEK	1.56	* SACANDAGA RIVER AT STEWARTS BRIDGE				
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	763.78	30.57	6	2013	754.40	20.89
2	2019	763.62	30.40	7	2015	753.96	20.46
3	2011	757.86	24.32	8	2020	753.92	20.42
4	2012	754.91	21.38	9	2016	753.36	19.88
5	2014	754.90	21.37	10	2017	752.28	18.86

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
 Datum: NAVD 88

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
 FOR WEEK ENDING: December 5, 2020

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 28	1,644.40	2.51	12 AM - Mid	300	481	1,630
Sunday 29	1,644.42	2.51	12 AM - Mid	300	450	1,620
Monday 30	1,644.39	2.51	12 AM - Mid	300	395	1,540
Tuesday 1	1,644.49	2.53	12 AM - Mid	491	480	2,180
Wednesday 2	1,644.57	2.54	12 AM - Mid	600	870	2,970
Thursday 3	1,644.52	2.53	12 AM - Mid	600	779	2,770
Friday 4	1,644.38	2.51	12 AM - Mid	599	559	2,280
Saturday 5	1,644.27	2.49	12 AM - Mid	597	445	2,000
CHANGE IN STORAGE DURING THE WEEK		-0.02	* INIDAN RIVER NEAR INDIAN LAKE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,646.15	2.81	6	2011	1,643.11	2.30
2	2018	1,644.51	2.53	7	2013	1,642.64	2.22
3	2020	1,644.27	2.49	8	2014	1,641.79	2.09
4	2019	1,644.06	2.45	9	2012	1,641.75	2.08
5	2015	1,643.95	2.43	10	2017	1,641.13	1.98

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
FOR WEEK ENDING: December 12, 2020

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 5	1,644.27	2.49	12 AM - Mid	597	445	2,000
Sunday 6	1,644.11	2.46	12 AM - Mid	595	377	1,810
Monday 7	1,643.91	2.43	12 AM - Mid	591	311	1,570
Tuesday 8	1,643.70	2.39	12 AM - Mid	589	266	1,460
Wednesday 9	1,643.49	2.36	12 AM - Mid	587	235	1,410
Thursday 10	1,643.28	2.32	12 AM - Mid	583	226	1,270
Friday 11	1,643.09	2.29	12 AM - Mid	581	208	1,190
Saturday 12	1,642.87	2.26	12 AM - Mid	576	192	1,150

CHANGE IN STORAGE DURING THE WEEK	-0.23	* INIDAN RIVER NEAR INDIAN LAKE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,646.84	2.93	6	2011	1,642.78	2.24
2	2018	1,643.64	2.38	7	2012	1,642.20	2.15
3	2015	1,642.96	2.27	8	2013	1,641.64	2.06
4	2019	1,642.91	2.26	9	2014	1,641.46	2.03
5	2020	1,642.87	2.26	10	2017	1,641.22	1.99

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
 FOR WEEK ENDING: December 19, 2020

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 12	1,642.87	2.26	12 AM - Mid	576	192	1,150
Sunday 13	1,642.66	2.22	12 AM - Mid	574	187	1,160
Monday 14	1,642.41	2.18	12 AM - Mid	573	209	1,220
Tuesday 15	1,642.25	2.16	12 AM - Mid	567	209	1,250
Wednesday 16	1,642.01	2.12	12 AM - Mid	562	186	1,200
Thursday 17	1,641.83	2.09	12 AM - Mid	559	180	1,190
Friday 18	1,641.67	2.07	12 AM - Mid	389	169	1,050
Saturday 19	1,641.53	2.04	12 AM - Mid	308	158	790
CHANGE IN STORAGE DURING THE WEEK		-0.21	* INIDAN RIVER NEAR INDIAN LAKE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,647.49	3.04	6	2012	1,642.19	2.15
2	2011	1,642.46	2.19	7	2020	1,641.53	2.04
3	2018	1,642.35	2.18	8	2014	1,641.23	2.00
4	2019	1,642.34	2.17	9	2017	1,640.74	1.92
5	2015	1,642.26	2.16	10	2013	1,640.71	1.91

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
 FOR WEEK ENDING: December 26, 2020

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 19	1,641.53	2.04	12 AM - Mid	308	158	747
Sunday 20	1,641.44	2.03	12 AM - Mid	307	155	796
Monday 21	1,641.37	2.02	12 AM - Mid	305	152	826
Tuesday 22	1,641.27	2.00	12 AM - Mid	304	149	814
Wednesday 23	1,641.19	1.99	12 AM - Mid	304	141	824
Thursday 24	1,641.06	1.97	12 AM - Mid	304	141	883
Friday 25	1,641.13	1.98	12 AM - Mid	308	677	7,820
Saturday 26	1,642.65	2.22	12 AM - Mid	312	2,980	11,600
CHANGE IN STORAGE DURING THE WEEK		0.18	* INIDAN RIVER NEAR INDIAN LAKE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,647.67	3.08	6	2013	1,642.46	2.19
2	2018	1,644.38	2.51	7	2012	1,642.14	2.14
3	2015	1,643.10	2.30	8	2011	1,642.08	2.13
4	2014	1,642.78	2.24	9	2017	1,640.83	1.93
5	2020	1,642.65	2.22	10	2019	1,640.63	1.90

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: **December 5, 2020**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 28	1,666.97	2.05	12 AM -Mid	300	648	4,400
Sunday 29	1,667.01	2.06	12 AM -Mid	300	654	4,650
Monday 30	1,667.04	2.06	12 AM -Mid	300	648	4,470
Tuesday 1	1,667.09	2.07	12 AM -Mid	417	651	4,850
Wednesday 2	1,667.13	2.08	12 AM -Mid	500	631	5,200
Thursday 3	1,667.10	2.07	12 AM -Mid	500	705	5,220
Friday 4	1,667.04	2.06	12 AM -Mid	500	704	4,960
Saturday 5	1,666.97	2.05	12 AM -Mid	500	693	4,490

CHANGE IN STORAGE DURING THE WEEK	0.00
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,675.28	3.73	6	2016	1,668.74	2.34
2	2017	1,672.42	3.06	7	2014	1,668.53	2.31
3	2018	1,671.53	2.87	8	2011	1,668.18	2.25
4	2013	1,670.94	2.75	9	2020	1,666.97	2.05
5	2015	1,670.74	2.70	10	2012	1,666.06	1.90

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88 - datum revised

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: **December 12, 2020**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 5	1,666.97	2.05	12 AM -Mid	500	693	4,490
Sunday 6	1,666.87	2.03	12 AM -Mid	500	690	4,200
Monday 7	1,666.76	2.01	12 AM -Mid	500	665	3,800
Tuesday 8	1,666.63	1.99	12 AM -Mid	500	646	3,280
Wednesday 9	1,666.48	1.97	12 AM -Mid	500	600	2,870
Thursday 10	1,666.35	1.95	12 AM -Mid	500	618	2,740
Friday 11	1,666.20	1.92	12 AM -Mid	383	574	2,830
Saturday 12	1,666.09	1.90	12 AM -Mid	300	500	2,660

CHANGE IN STORAGE DURING THE WEEK	-0.15
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,674.40	3.52	6	2016	1,668.97	2.38
2	2017	1,672.86	3.16	7	2011	1,668.25	2.26
3	2018	1,671.53	2.87	8	2014	1,667.76	2.18
4	2013	1,670.85	2.73	9	2012	1,666.57	1.98
5	2015	1,670.40	2.64	10	2020	1,666.09	1.90

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88 - datum revised

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: **December 19, 2020**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 12	1,666.09	1.90	12 AM -Mid	300	500	2,660
Sunday 13	1,666.05	1.90	12 AM -Mid	300	574	2,710
Monday 14	1,666.04	1.89	12 AM -Mid	300	516	3,130
Tuesday 15	1,666.03	1.89	12 AM -Mid	300	470	3,070
Wednesday 16	1,665.97	1.88	12 AM -Mid	300	411	2,770
Thursday 17	1,665.92	1.88	12 AM -Mid	300	491	1,940
Friday 18	1,665.89	1.87	12 AM -Mid	300	385	1,950
Saturday 19	1,665.82	1.86	12 AM -Mid	300	381	2,290

CHANGE IN STORAGE DURING THE WEEK	-0.04
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,673.91	3.40	6	2011	1,669.07	2.39
2	2017	1,672.69	3.12	7	2016	1,668.87	2.36
3	2018	1,670.98	2.75	8	2012	1,666.83	2.02
4	2015	1,670.52	2.66	9	2014	1,666.74	2.01
5	2013	1,670.38	2.63	10	2020	1,665.82	1.86

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88 - datum revised

CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION
 FOR WEEK ENDING: **December 26, 2020**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 19	1,665.82	1.86	12 AM -Mid	300	381	2,290
Sunday 20	1,665.74	1.85	12 AM -Mid	300	412	2,150
Monday 21	1,665.68	1.84	12 AM -Mid	300	368	2,320
Tuesday 22	1,665.61	1.82	12 AM -Mid	300	350	2,310
Wednesday 23	1,665.53	1.81	12 AM -Mid	300	343	2,170
Thursday 24	1,665.45	1.80	12 AM -Mid	300	382	2,120
Friday 25	1,665.68	1.84	12 AM -Mid	300	1,140	6,430
Saturday 26	1,666.75	2.01	12 AM -Mid	144	1,630	11,100

CHANGE IN STORAGE DURING THE WEEK	0.16	
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,672.79	3.14	6	2011	1,669.41	2.45
2	2013	1,672.66	3.12	7	2016	1,668.71	2.34
3	2017	1,672.23	3.02	8	2014	1,667.68	2.17
4	2018	1,671.57	2.88	9	2012	1,667.51	2.14
5	2015	1,670.78	2.71	10	2020	1,666.75	2.01

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88 - datum revised

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: [December 5, 2020](#)

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 28	1,705.23	0.690	158	1,783.33	0.218	48
Sunday 29	1,705.15	0.680	158	1,783.33	0.218	48
Monday 30	1,705.12	0.675	157	1,783.31	0.217	48
Tuesday 1	1,705.14	0.678	157	1,783.33	0.218	72
Wednesday 2	1,705.15	0.680	157	1,783.30	0.217	86
Thursday 3	1,705.16	0.681	157	1,783.24	0.215	86
Friday 4	1,705.12	0.675	157	1,783.12	0.211	85
Saturday 5	1,705.12	0.675	157	1,783.01	0.208	85
CHANGE IN STORAGE		-0.016			-0.010	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2020	1,705.12	0.675	1	2016	1,784.29	0.247
2	2016	1,705.07	0.669	2	2020	1,783.01	0.208
3	2017	1,704.93	0.651	3	2017	1,782.35	0.187
4	2019	1,704.78	0.632	4	2018	1,782.08	0.179
5	2018	1,704.75	0.628	5	2019	1,782.02	0.177

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: December 12, 2020

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 5	1,705.12	0.675	157	1,783.01	0.208	85
Sunday 6	1,705.08	0.669	156	1,782.88	0.204	84
Monday 7	1,705.05	0.665	156	1,782.75	0.200	83
Tuesday 8	1,705.04	0.664	155	1,782.62	0.196	82
Wednesday 9	1,704.99	0.659	155	1,782.46	0.191	81
Thursday 10	1,704.98	0.658	154	1,782.34	0.187	80
Friday 11	1,704.95	0.654	126	1,782.20	0.183	59
Saturday 12	1,704.93	0.651	112	1,782.12	0.180	46
CHANGE IN STORAGE		-0.023			-0.028	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2017	1,704.97	0.656	1	2016	1,783.66	0.228
2	2020	1,704.93	0.651	2	2017	1,782.52	0.192
3	2019	1,704.77	0.630	3	2020	1,782.12	0.180
4	2016	1,704.76	0.629	4	2019	1,782.10	0.180
5	2018	1,704.43	0.586	5	2018	1,781.48	0.160

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: December 19, 2020

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 12	1,704.93	0.651	112	1,782.12	0.180	46
Sunday 13	1,704.91	0.649	112	1,782.07	0.179	45
Monday 14	1,704.86	0.641	112	1,782.04	0.178	45
Tuesday 15	1,704.80	0.633	111	1,781.98	0.176	45
Wednesday 16	1,704.81	0.634	111	1,781.95	0.175	45
Thursday 17	1,704.80	0.633	111	1,781.90	0.174	45
Friday 18	1,704.77	0.629	111	1,781.87	0.173	45
Saturday 19	1,704.73	0.625	111	1,781.80	0.171	44
CHANGE IN STORAGE		-0.026			-0.010	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,704.84	0.639	1	2016	1,783.19	0.213
2	2016	1,704.79	0.633	2	2019	1,782.32	0.186
3	2017	1,704.76	0.629	3	2017	1,782.25	0.184
4	2020	1,704.73	0.625	4	2020	1,781.80	0.171
5	2018	1,704.43	0.586	5	2018	1,781.54	0.162

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: December 26, 2020

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 19	1,704.73	0.625	111	1,781.80	0.171	44
Sunday 20	1,704.68	0.619	110	1,781.74	0.169	44
Monday 21	1,704.65	0.615	80	1,781.69	0.167	35
Tuesday 22	1,704.65	0.615	60	1,781.65	0.166	28
Wednesday 23	1,704.65	0.615	60	1,781.63	0.165	28
Thursday 24	1,704.63	0.612	62	1,781.58	0.164	29
Friday 25	1,704.82	0.636	63	1,781.76	0.169	28
Saturday 26	1,705.10	0.672	63	1,782.60	0.195	31
CHANGE IN STORAGE		0.047			0.024	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2020	1,705.10	0.672	1	2016	1,782.75	0.199
2	2017	1,704.71	0.623	2	2020	1,782.60	0.195
3	2019	1,704.65	0.615	3	2017	1,782.16	0.181
4	2016	1,704.55	0.602	4	2019	1,782.02	0.177
5	2018	1,704.44	0.587	5	2018	1,781.61	0.165

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER